



V-400 Series

Economic refrigeration
for medium sized trucks



You choose:

- Superior performance
- Electric stand-by capacity at approximately 100% of the road capacity
- Guaranteed reliability
- Ultra slim evaporator
- Easy to service and install
- Flexibility
- Low noise



Specifications

Description

The V-400 Series from Thermo King comprises two-piece split units designed for fresh, frozen and deep frozen applications on medium-sized trucks and vans. The road compressor is powered by the vehicle's engine. In electric stand-by version, a semi-hermetic reciprocating compressor powers the unit.

System components

- Condenser
- ES400 MAX evaporator
- Engine driven compressor
- Installation kit
- In-cab control box
- Compressor drive kits (on request)

Refrigerant

V-400 MAX: HFC R-404A (3.2 kg)
Chlorine: Zero

Compressor (engine driven)

- Number of cylinders: 6
- Displacement: 146.7 cm³ (8.95 cu in.)
- Maximum recommended speed: 3,000 rpm
- Jet Lube and Jet Cool compressor lubrication and cooling systems

Defrost

- Automatic hot gas defrost

Evaporator fan performance

Airflow volume:
Host evaporator (ES400 MAX):
1450 m³/h (855 cu ft/min)

Electric motors

- dc voltage options: 12 Vdc and 24 Vdc
- Electric standby options: 400V/3 Phase/50Hz, 230V/3 Phase/50Hz
- Total current consumption on the road:

	12 Vdc	24 Vdc
V-400 MAX	30A	15A

- Total standby current consumption:

	V-400 MAX
400V/3 Phase/50Hz	6.8
230V/3 Phase/50Hz	13.6

Refrigeration capacity

30°C ambient, European standard.

System net cooling capacity under ATP conditions including 30°C (86°F) ambient.

V-400 MAX (HFC R-404A Refrigerant)

Air return / On the road	Watts	BTU/hr
0°C (32°F)	4200	14344
-20°C (-4°F)	2300	7855
-25°C (-13°F)	1825	6233

Electric stand-by 50Hz

0°C (32°F)	4150	14165
-20°C (-4°F)	2285	7800
-25°C (-13°F)	1790	6110

100°F ambient, U.S. standard.

System net cooling capacity at 100°F (38°C) ambient and 2400 compressor rpm.

V-400 MAX (HFC R-404A Refrigerant)

Air return / On the road	BTU/hr	Watts
35°F (2°C)	13114	3840
0°F (-18°C)	7190	2105
-20°F (-29°C)	3580	1050

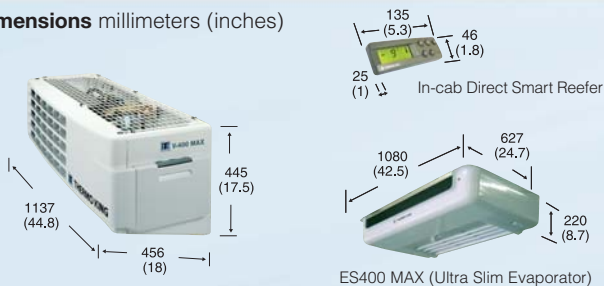
Electric stand-by 60Hz

35°F (2°C)	12425	3640
0°F (-18°C)	6620	1940
-20°F (-29°C)	1940	1005

standard features

- Jet Lube™ compressor lubrication
- Jet Cool™ compressor injection cooling
- In-cab controls with digital LED thermometer
- Automatic hot gas defrost
- Electronic thermostat

Dimensions millimeters (inches)



Weights (approximate)

Condenser:
Without electric stand-by 68 kg (150 lb)
With electric stand-by 140 kg (309 lb)
ES400 MAX (Ultra Slim evaporator) 7.5 kg (16 lb)



TOTAL KARE

Because maintenance costs constitute a key variable in the Total Life Cost of a temperature control system, we now offer, through Total Kare, a complete selection of maintenance programmes.
total_kare@thermoking.com



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THERMO KING

TK 52045-1-PL E (Rev. 1, 2-05)

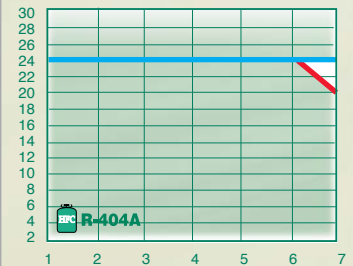
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Selection guide

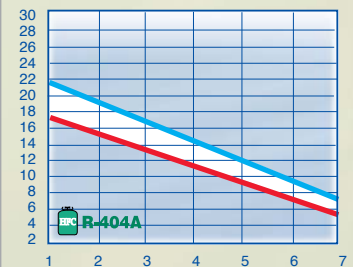
Chilled compartment (k=0.5 W/m²K)

— ambient: 30°C/86°F, compartment: 6°C/43°F
— ambient: 100°F/38°C, compartment: 43°F/6°C



Frozen compartment (k=0.35 W/m²K)

— ambient: 30°C/86°F, compartment: -20°C/-4°F
— ambient: 100°F/38°C, compartment: 0°F/-18°C



Door openings per hour

Calculations are according to DIN 8959

WARRANTY SUMMARY

Terms of the Thermo King Express Warranty are available on request.
The unit and its components are warranted to be free from defects in material and workmanship from date in service according to the terms (in months) as specified in the Thermo King Express Warranty.
Manufacturer is not responsible and will not be held liable in contract or tort (including strict liability and negligence) for any special, indirect or consequential damages including but not limited to injury or damage caused to vehicles, contents or persons, by reason of the installation or use of any Thermo King product or its mechanical failure.
Specifications are subject to change without notice.

Thermo King Corporation Ingersoll-Rand Company

Monivea Road, Mervue, Galway, Ireland.
NCI Building - 4th Floor, Culliganlaan 1B,
1831 Diegem, Belgium.

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